



PROJECT MANAGER
FIREFINDER

U.S. ARMY ELECTRONICS RESEARCH
AND DEVELOPMENT COMMAND
FORT MONMOUTH, NEW JERSEY 07703

HUGHES
AIRCRAFT COMPANY

GROUND SYSTEMS GROUP

MAINTENANCE BULLETIN

AN/TPQ-37 RADAR	FILE NO.	REVISION:
	123	
SUBJECT	DATE	CATEGORY
PREVENTION OF FALSE FAULTS	17 Feb. 1989	C-Maint. Proc.
	SYSTEMS AFFECTED	ALL

1. REFERENCES:

- a. MWO 11-5840-355-50, Modification of Transmitter Unit for AN/TPQ-37(V)1, (V)2, (V)5 and (V)6
- b. TM 11-5840-355-10-1, Operator's Manual for Radar Sets AN/TPQ-37(V)1, (V)2, (V)5 and (V)6
- c. TM 11-5840-355-20-1, Organizational Maintenance Manual for Radar Sets AN/TPQ-37(V)1, (V)2, (V)5 and (V)6

2. BACKGROUND:

After incorporation of the Transmitter PIP modification in accordance with Reference a, the following false faults may occur when performing Trailer Status Test (Reference b, page 3-32) or Trailer FIT (Reference c, page 2-60).

FAULT	621/005	HHMMSS
FAULT 2A2A2	401/013	HHMMSS

These faults may initially occur when performing these tests after System power is turned on or after cycling any transmitter circuit breaker because the current software does not allow sufficient calibration time for the cathode current control loop. To eliminate these false faults, a special time delay will be implemented in a future release of software. Until the new software is available, the following procedure should be used to prevent these false faults from impacting system operation.

3. PROCEDURE:

Note: Perform this procedure only once after System turn on or after any transmitter circuit breakers have been cycled (off/on).

APPROVED BY CHIEF LMD:

JOHN V. VONELLA

DATE: 8/7/89

AN/TPQ-37 RADAR

123 (CONTINUED)
C-Maint. Proc.

Prevention of False Faults

- a. After loading Trailer Status program (101) or Trailer FIT program (201), terminate testing by entering Function Code 38.
- b. Turn high voltage on (HV ON illuminates).
- c. Manually initiate Transmitter Stability Test 701 by entering Function Code 30 701 and ignore all faults reported during this test.
- d. After Test 701 has terminated, enter Function Code 39 and return to normal operation.

Once this procedure has been completed, all subsequently detected faults should be considered valid.

AN/TPQ-77 TECHNICAL MANUAL STATUS DATE: 4 AUG 82

TECHNICAL MANUALS	PRINT DATE	CHANGE NO. 1	CHANGE NO. 2	CHANGE NO. 3	CHANGE NO. 4	CHANGE NO. 5	CHANGE NO. 6	CHANGE NO. 7	CHANGE NO. 8	CHANGE NO. 9	CHANGE NO. 10	CHANGE NO. 11
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TRAILER MANUALS

TM 11-5840-373-10-1
TM 11-5840-373-10-2(C)
TM 11-5840-373-10-HR
TM 11-5840-373-20-1
TM 11-5840-373-20-2
TM 11-5840-373-20-3
TM 11-5840-373-20
TM 11-5840-373-30-1
TM 11-5840-373-30-2
TM 11-5840-373-30-3(C)
TM 11-5840-373-30-4

CAMOUFLAGE

TM 11-5840-355-10-1

COMMON SHELTER MANUALS

TM 11-5840-372-20
TM 11-5840-372-30-1
TM 11-5840-372-30-2
TM 11-5840-372-30-3

TRAILER CMWRS

CMWR 11-5840-372-1
CMWR 11-5840-372-2
CMWR 11-5840-372-3(C)

COMMON SHELTER CMAR

CMAR 11-5840-372

BENCH TEST CMWRS TRAILER/COMMON SHELTER

CMWR 11-5840-372-4-1
CMWR 11-5840-372-4-2
CMWR 11-5840-372-4-3(C)
CMAR 11-5840-372-1